■ Controller

YK500XGP

Ordering method

YK500XGP		F	-	- RCX340-4		-	H	-	
Model	Z axis stroke 200: 200mm	Tool flange F: With tool flange	- Cable 3L: 3.5m		Safety Option A standard (OP.A)			Option E _ Absolu (OP.E) batter	
	300: 300mm		5L: 5m	Specify various controller setting items. RCX340 ▶ P.566					

■ Specifications X-axis Y-axis Z-axis R-axis 200 mm 300 mm Arm length 200 mm 300 mm specifications Rotation angle +/-130 ° +/-145° +/-360 400 W 200 W 200 W 200 W AC servo motor output Deceleration Transmission Motor to speed reduce Direct-coupled mechanism method Speed reducer to output Direct-coupled Repeatability +/-0.01 mm +/-0.01 mm +/-0.004° 7.6 m/sec 2.3 m/sec 1.7 m/sec 1700 °/sec Maximum speed Maximum payload 10 kg Standard cycle time: with 2kg payload Note 2 0.55 sec R-axis tolerable moment of inertia Note 3 0.3 kgm² Protection class Note 4 Equivalent to IP65 (IEC 60529) 0.2 sq × 20 wires User wiring User tubing (Outer diameter) ф 6 × 3 **Travel limit** 1.Soft limit 2.Mechanical stopper (X,Y,Z axis) Robot cable length Standard: 3.5 m Option: 5 m, 10 m

5L: 5m 10L: 10m

Controller	Power capacity (VA)	Operation method
RCX340	1700	Programming / I/O point trace / Remote command Operation using RS-232C communication

Note. The movement range can be limited by changing the positions of X and Y axis mechanical stoppers. (The movement range is set to the maximum at the time of shipment.) See our robot manuals (installation manuals) for detailed information

To set the standard coordinates with high accuracy, use a standard coordinate setting jig (option). Refer to the user's manual (installation manual) for more details.

Our robot manuals (installation manuals) can be downloaded from our website at the address below https://global.yamaha-motor.com/business/robot/

Weight

Note 1. This is the value at a constant ambient temperature. (X,Y axes)
Note 2. When reciprocating 25mm in vertical direction and 300mm in horizontal direction (rough-positioning arch motion).
Note 3. The acceleration coefficient is set automatically in accordance with the tip weight and R-axis moment of inertia settings.
Note 4. Do not use robots where the bellows section is directly exposed to water jet. Contact our distributor for information on drip-proof structure preventing liquid other than water.

YK500XGP Connector for user wiring (No.1 to 20 usable, cable clamp size: \$\phi16\$ to18) Cover with the caps provided when not used. R178 User tubing 1 (\phi 6 black) 40 120 User tubing 2 (φ6 red) M10 bolt for installation, 4 bolts used User tubing 3 (Φ6 blue) -222 (Base Note. Insert the plug provided when not used. If the robot enters the inside of the corner of dimensions 135 and 292, the Z-axis tip flange may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion. 300 176 53 114 151(Maximum 300 during arm rotation) Z300mm 785 Stroke Working envelope of left-handed system Z200mm 685 Stroke (Maximum 760 during arm rotation) 479 Connector for user wiring 373 351 (No.1 to 20 usable, cable clamp size: \$\phi\$16 to 18) 81 283 245 φ38 (Air release tubing) 259 Cover with the caps provided Connect a hose and extend it to a location not exposed to water and dust. 187 when not used 71 91 159 117.6+/-2 X axis joint air purge port (φ6) Z-axis stroke
Z-axis rises
8mm during
retum-to-origin. φ72 h7 Y axis joint air purge port (φ6) M4 ground terminal 0 If the robot enters the inside of the corner of dimensions 135 and 292, the Z-axis tip flange may be in contact with the base or the arm may be in contact with the machine harness. So, do not perform such motion. -axis User tubing 1 (φ6 black) 300 Z 10 User tubing 2 (\$\phi6\$ red) User tubing 3 (\$\phi6\$ blue) Insert the plug provided when not used. Working envelope of right-handed system Z-axis lower end mechanical stopper position φ25 H7 0.021 · Note that the robot cannot be used at a position where the base flange, robot cable, spline, and bellows interfere with each other in the working envelope shown above. Keep enough space for φ72 h7 -0.03 28 the maintenance work at the rear of the base X-axis mechanical stopper position: 132° P.C.D.36 Y-axis mechanical stopper position: 147° 6-M5×0.8 Depth 11 4-φ11 R32 (Min. cable bending radius) Do not move the cable There is no phase relation between each position of M5 tapped holes and R-axis origin position. Z axis tip shape

Z axis 200 mm: 32 kg Z axis 300 mm: 33 kg